Application No.:

10/595,081

Amendment Dated:

January 7, 2009 Reply to Office Action of: November 18, 2008 MAT-8798US

Amendments to the Specification:

Please replace the paragraph, beginning at page 6, line 10, with the following rewritten paragraph:

At this time, as the glass fibers, C glass of which alkali content is 17 wt% is used. When the viscosity temperature characteristics of the glass are analyzed by a beam bending method, the temperature of the distortion-strain point is 525°C. C glass means glass of which alkali content is at least 0.8 wt% and at most 20 wt%, and especially glass for fiber having high acid resistance

Please replace Table 1, beginning at page 10, with the following rewritten Table:

Table 1

No.	Glass		Characteristic of core				Characteristic of vacuum heat insulator	
	Туре	Distortion Strain point (°C)	Binding material	Density (kg/m³)	Surface hardness	Handling property	Heat conductivit y (W/mK)	Density of core (kg/m³)
E1	С	525	Non	200	50	good	0.0020	235
E2	С	525	Non	220	51	good	0.0019	240
E3	С	525	Non	240	52	good	0.0018	260
E4	С	525	Non	260	52	good	0.0020	270
E5	Α	500	Non	220	52	good	0.0020	240
E6	С	525	Colloidal silica	200	55	excellent	0.0024	230
C1	С	525	Eluting component	220	51	good	0.0027	240
C2	С	525	Water glass	220	55	good	0.0030	240
C3	С	525	Boric acid	220	50	good	0.0029	240
C4	E	560	Non	180	20	bad	0.0020	240

Please replace the paragraph, beginning at page 11, line 6, with the following rewritten paragraph:

On the other hand, the vacuum heat insulators in samples E1 to E5 using no binding material have heat conductivity of 0.018.0018 to 0.002 W/mK at average

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temperature of 24°C, and have heat insulation performance that is 10 or more times higher than that of the general-purpose rigid polyurethane foam. Further, since the binder component is not used, gas generated from the binder component does not occur, and vacuum heat insulators having small degradation over time in heat insulation performance can be provided. Since the binder component is not required in molding the cores, man-hour can be reduced and the cores can be molded efficiently.

Please replace the paragraph, beginning at page 11, line 19, with the following rewritten paragraph:

In sample C4, E glass of high distortion strain point is used, but the core is molded at 480°C which is the same as that for C glass. Therefore, the heat deformation of the glass fibers is insufficient, core rigidity is insufficient, and the handling property of the core presents a problem. Though the core is molded to have the density of 220 kg/m³ thereof, the laminated body of the glass fibers cannot be molded in a predetermined thickness and hence the density after the molding is 180 kg/m³. Thus, it is preferable to use the glass containing alkali in core 2, because the molding temperature is low.